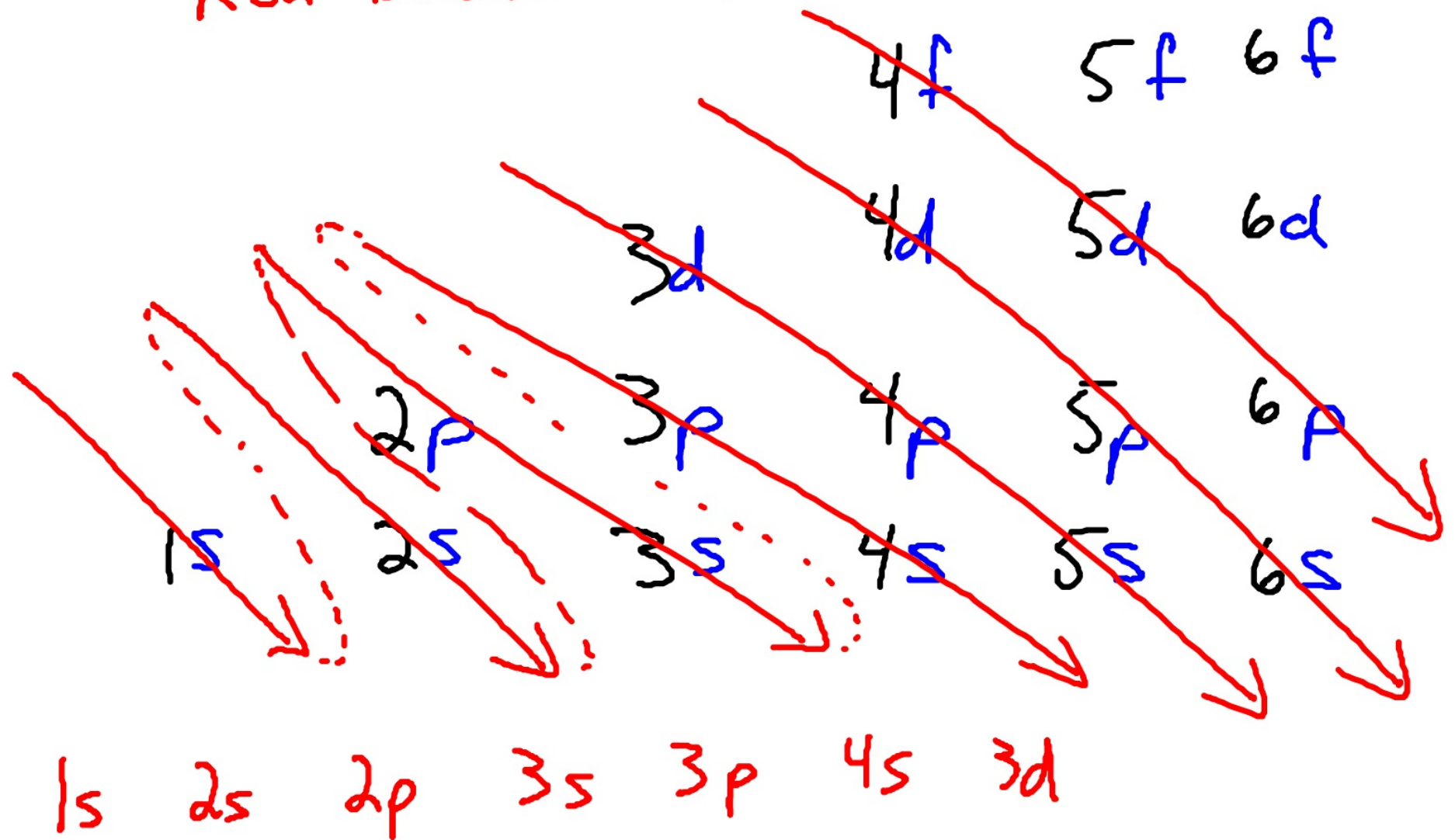
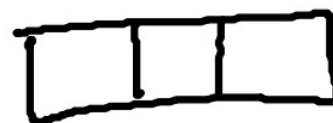


Red Brick Road



	s	p	d	f
# of Boxes "orbitals"	1	3	5	7

p "orbital" =

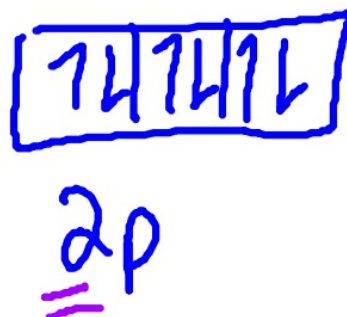
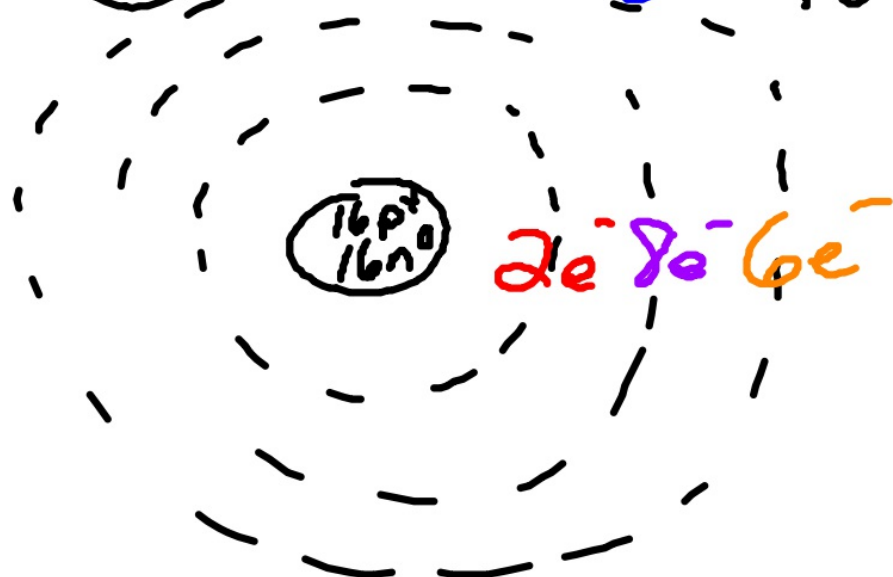


electrons =

\uparrow e⁻ spinning up
 \downarrow e⁻ spinning down

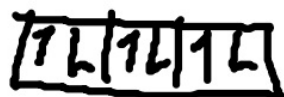


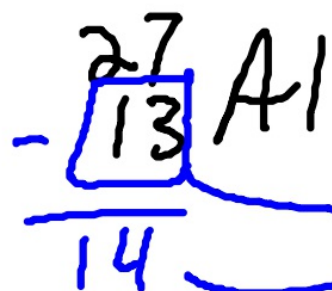
No charge so $p^+ = e^-$





Neutral charge $p^+ = e^-$





$$\left. \begin{array}{l} p^+ = 13 \\ n^0 = 14 \end{array} \right\} \text{Neutral}$$

$$e^- = 13 \quad \text{Neutral so } p^+ = e^-$$

3 rings b.c. Al is in the 3rd period (row)

